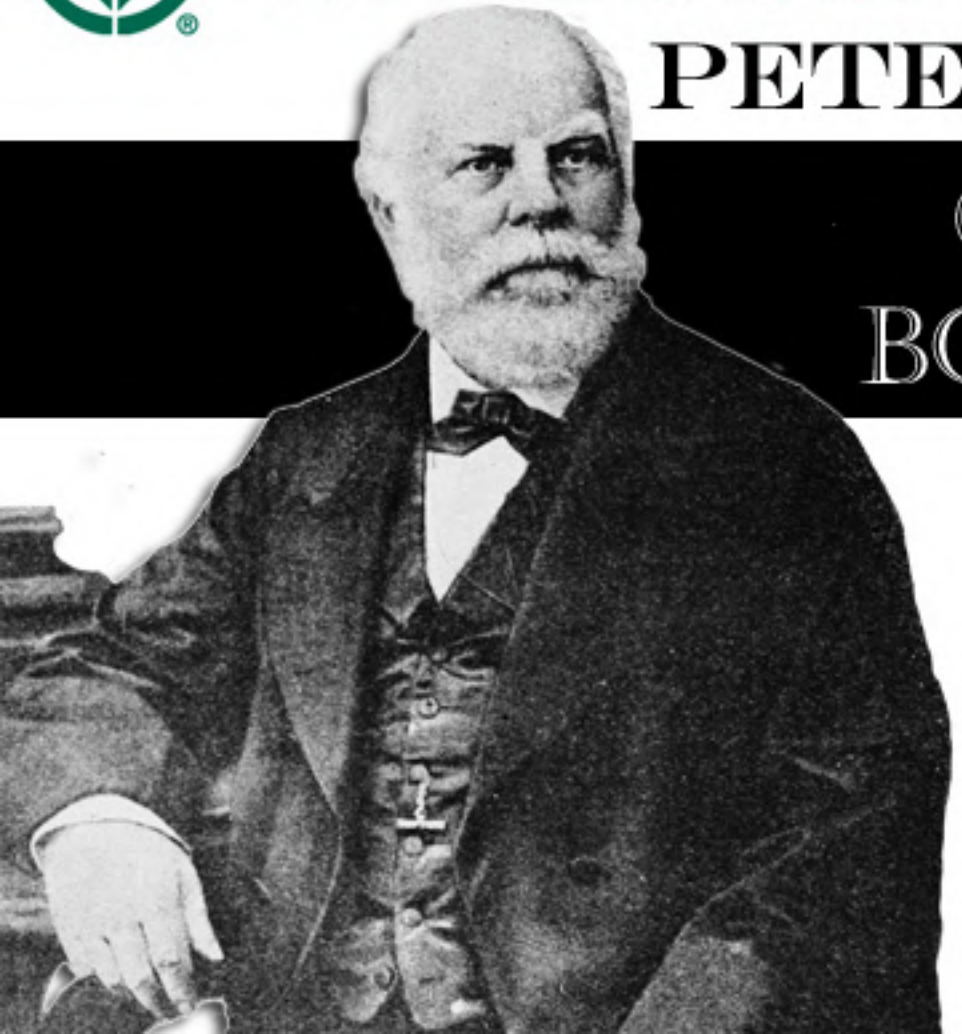
Missouri Botanical Garden

Peter H. Raven Library

George Engelmann Botanical Notebooks

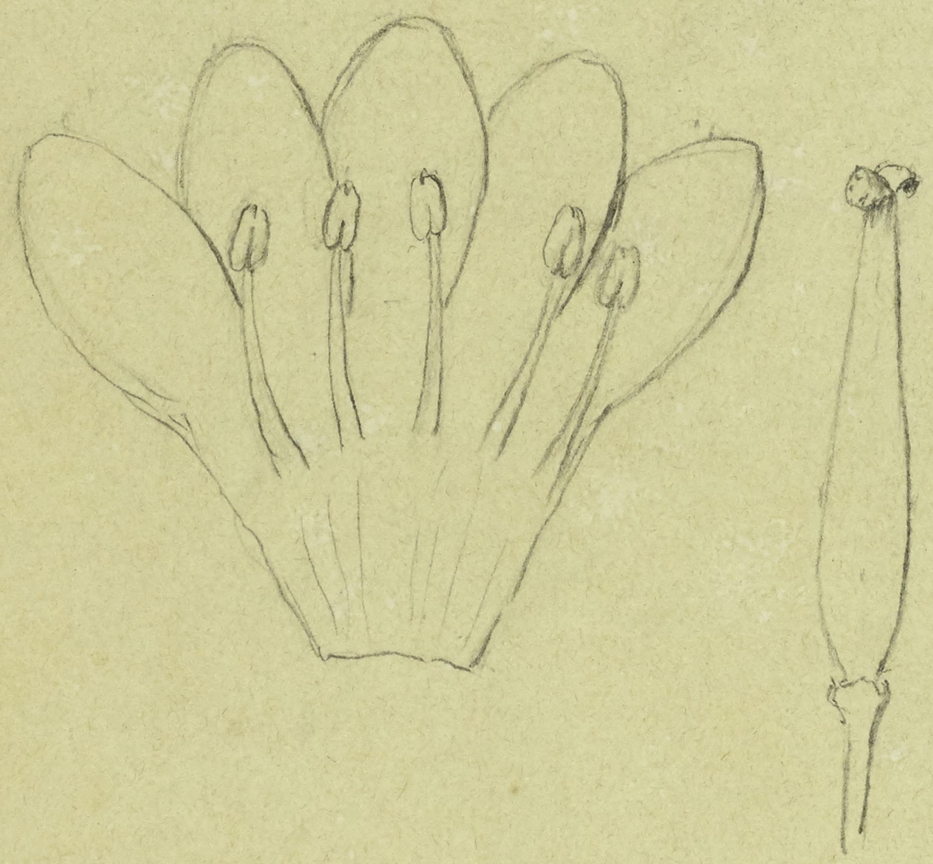


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Gentiana Patagonica

Dec 1861

×4



3990

M. W. ALEXANDER,

SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,

ST. LOUIS.

Gent. delonsa

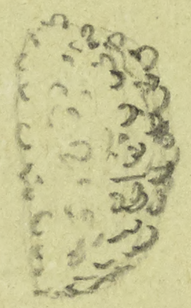
Dec 1861

Kansas Prairie
H. Engelm

fruit

fruit

cap. stipit



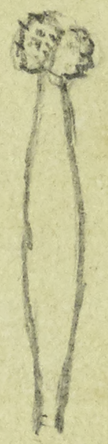
× 30

Seed. minute

× 4

× 4

stigm.

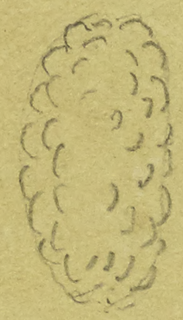


pistil

Pollen × 415

Gent. detonsa "Gentiana simplex" Nov 9 1874

Sierra Nevada, 8000' alt. Boland 1866. No 6359



ovule × 30

HENRY EHRHARDT,

PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No. *Date* 187

℞

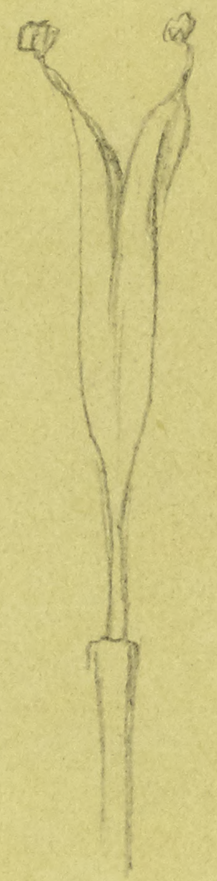
Gentiana detonsa

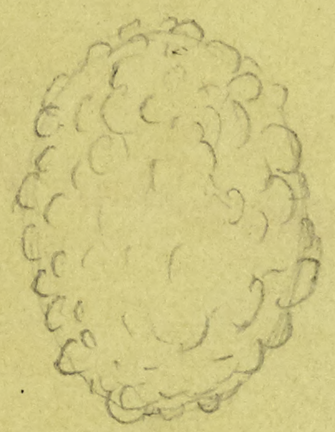
Oct 10 1877

Attwood 313

Kern River Cal

Sept 1875

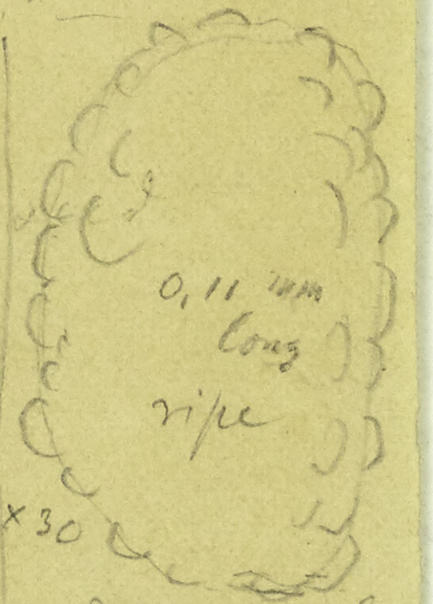




x 30

nearly ripe seed

0.8 mm long

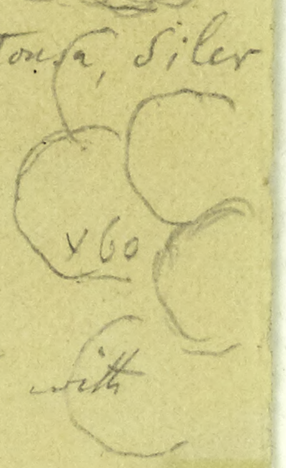


0.11 mm long ripe

x 30

detonsa, Siler

x60



x60

edge of moistened seed with vesicular coating

3993

Gentiana Detonsa

Wirt. Lapham

Oct 11 1877

mature capsul

×30

0.8 mm long

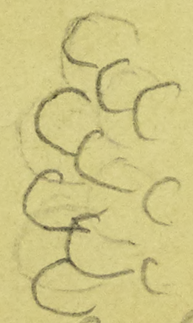
×60

ovulo-cylindrical vesicles

3994

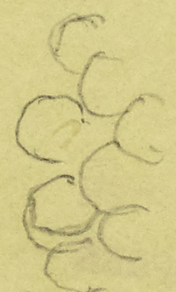
×60 *Gentiana detonsa* Oct 12 1877

seed 0.7 mm long



Henry Engelman
Utah

0.5 mm

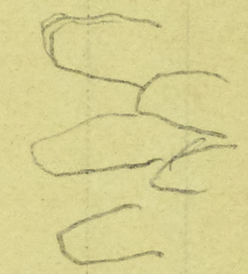


Richl. Ohio

0.8 mm

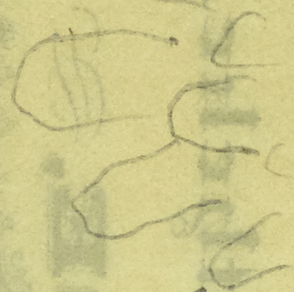
Riche, Ohio

0.6 mm



Sykes Minnesota

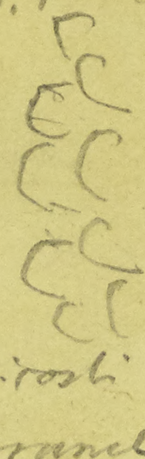
0.8 mm



Lapham
Wisc

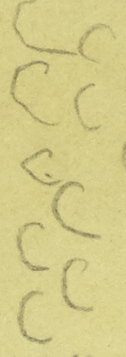
var. holopetala

seed 0.7 mm long



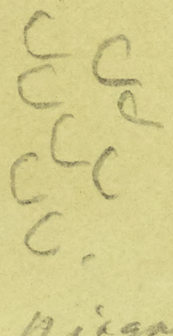
Antiosti
Brunel

0.5



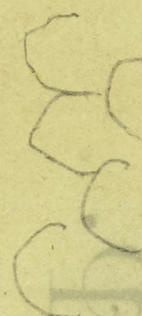
Hall & Harbour
Colorado

0.4



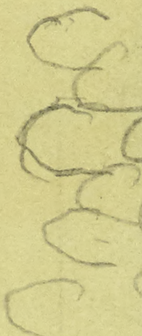
Nieger
J.E. 73

0.6



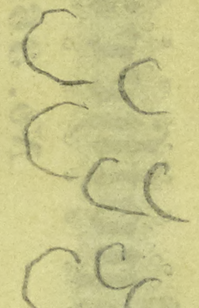
Valley
Colorado

0.7

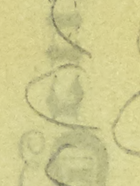


Calif
(Gray
nin

0.7



Blader
2847



Bolander
1866

Deutsche Apotheke.

GEO. UDE,

Apotheker and Druggist

No. 3610 North 10th Street,

Between Mallinckrodt and Salisbury, **ST. LOUIS, MO.**

No. *187*

For .....

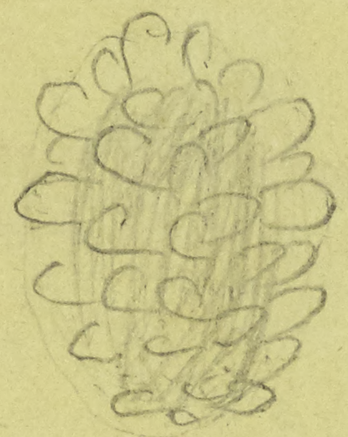
℞.

3993

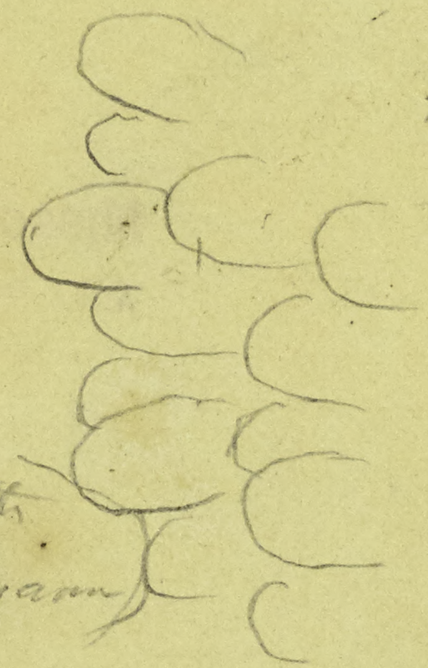
G. inirita Oct 10 1877

Minnesota, Sykes

×30



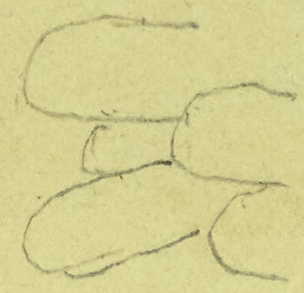
×60



(Nicollet, Minnesota
is exactly the same)

Connecticut, Eaton.
same fruit & seed

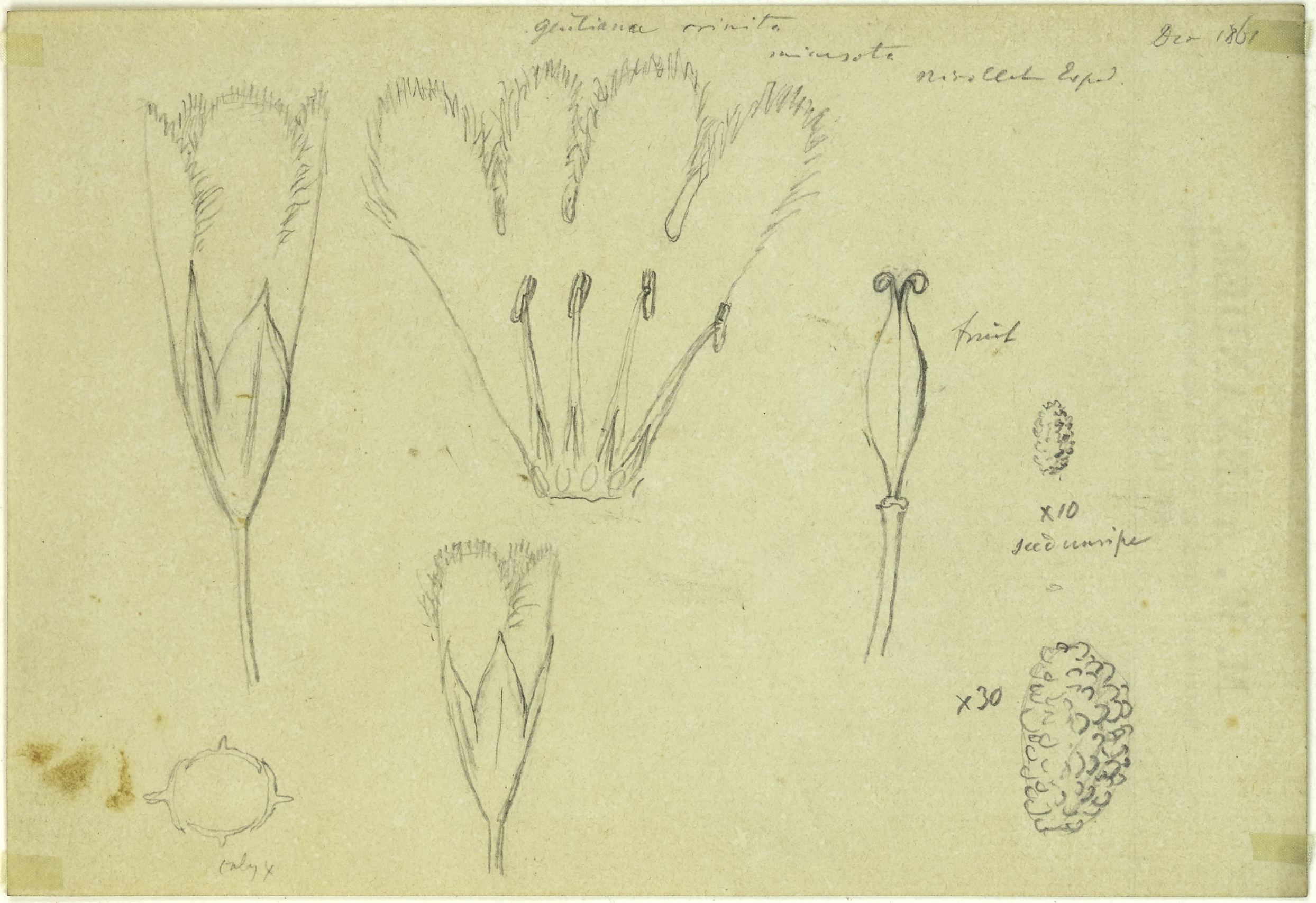
vessicles
oblong



3996

gentiana crinita
minnesota
Mollett Exp.

Dec 1861



3997

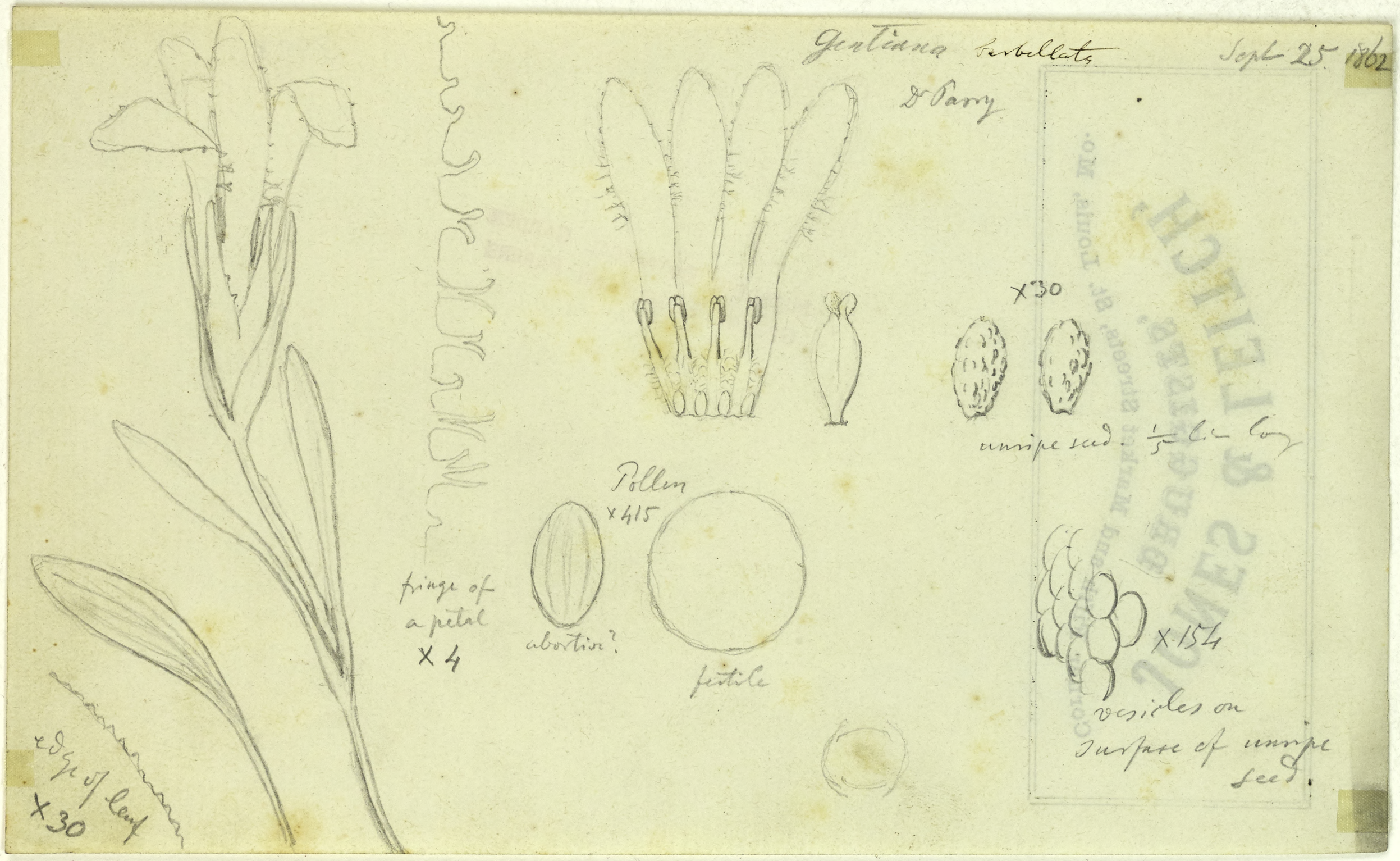
M. W. ALEXANDER,

SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,

ST. LOUIS.

Gentiana serbellata Sept 25. 1862

Dr Parry



3998

G. barbellata Oct 11 1877

G. E. Berthoud Pass 1874

clavate capsule
attenuate into a stipe
sligh sessile

×30

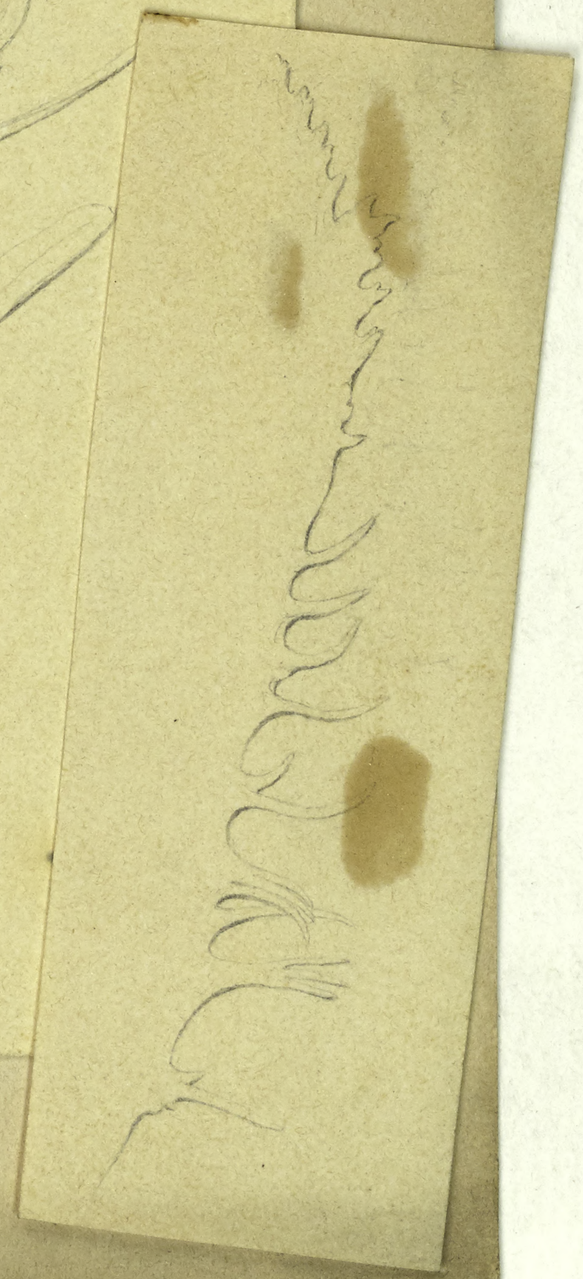
0.4 mm long

×60

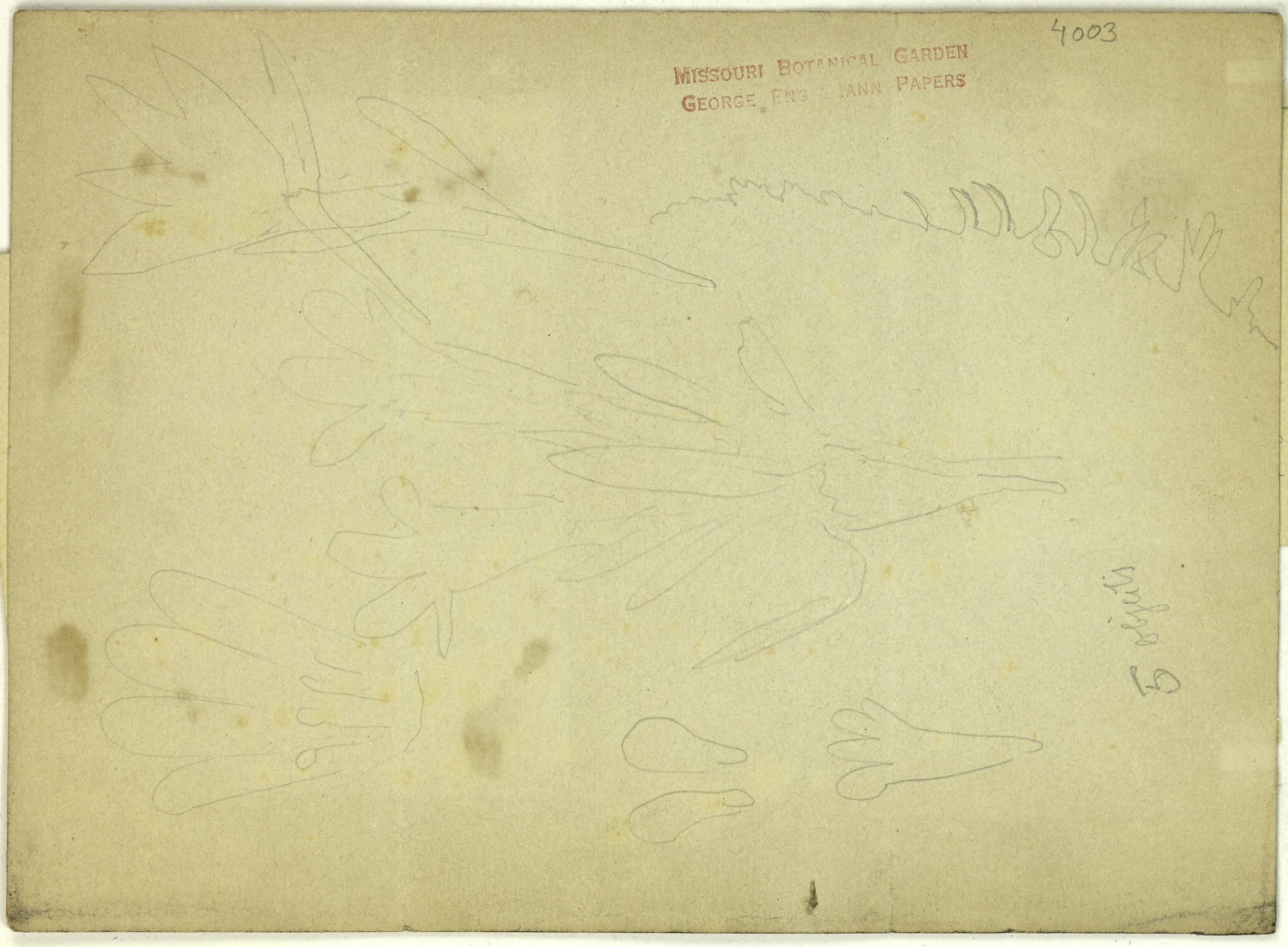
3999

4000

Gentiana barbellata



Rostta del
Jan 1863



Vegetation of Gent barbellata examined at Empire, Col
Sept 10 1875

Horizontal filiform stolons (?) 2 or 3 inches below surface, from not ? several inches long, putting up new stems.

Base of stem somewhat thickened, covered with black leaf-bases, so that the plant, superficially examined, appears biennial.

But these ring-like leaf-bases, carefully examined, show the growth of many years.

Each year the plant makes 2 pairs of radial leaves; a single flowerstalk in the axil of one of outer pair of these leaves — then the remnants of 2 pairs of leaves or 2 rings, and of 1 flower stalk indicate ~~an annual ring, or~~ one years growth; the flowerstalk may be wanting sometimes not having been developed.

I have examined a plant exhibiting 12 rings or leaf pairs (therefore 6 years old); besides the present flowering stalk I found the remnants of 3 other flowering stalks — 3 on the same side with the present one, and the first one at a right angle with them.

The flowerstalk is axillary as above stated, and the centripetal growth of the plant is unlimited. But the number of organs of the plant during each year is limited (not without exception) and is the following: in August & Sept the flowering period

1. 1 pair of outer radial leaves, one of which in its axil bears the flowerstalk (of which also is a bud) with the form
2. a second pair of inner rad. leaves at right angles
3. a third pair, opposite the first, about 10 mm long now, one of the leaves with an axillary bud 9 mm long already showing the caulin leaves, bracts, and flowerorgans to be developed a year hence! — they are to be the outer radial leaves of next year
4. a fourth pair, also 10 mm long ~~being the~~ preparing to become the inner rad. leaves of next year.
5. a central bud 1¼ mm long showing plainly the 4 radial leaves to develope 2 years hence. no axillary bud has yet been observed, belonging to the
6. the flowering stem (as above!) with one pair of leaves (a) in the middle at right angles with the first pair (1) from the axil of which the stem springs — a pair of upper leaves (b) just below the flower (therefore termed bracts; c, exterior d, interior sepals) corresponding to caulin leaves & bracts, the former enclosing the inner. e & f 4 lobes of corolla convolute after the manner of the genus and alternating with the sepals, next come the 4 stamens opposite the sepals, and then the two carpels, not quite parallel with the two corollalobes, and ~~lie~~ these falling into the interstice between ~~two~~ inner and outer calyx lobes

The complete plant, then, consists of 4 radial leaves, an axillary flowerstalk with 4 more leaves (the upper pair approaching the flower and acting as bracts) and a ~~single~~ flower.

~~very~~ rarely I find 2 or 3 flowers (the accessory one from the axil of the upper most leaf pair or bract), and still more rarely a second flowerstalk.

All the organs for the following years' vegetation are already formed when the plant is in flower, and a small central bud exhibits the 4 radial leaves of the year next that.

G. barbellata is quite fragrant!

Brandegee

Cambridge, Oct. 31. 1872

Dr. George Engelmann,

Dear Sir,

I have been
placed at the head of Group 4
on the Advisory Committee for
America share in the Exposition
at Vienna next year. This group
embraces "Food as products of
Industry". It is certainly very
desirable that the wines of
Missouri and the West should
be represented at the Exhibition.

Gentiana barbellata

Cuyuna Sept 10. 1874

I

II

III

Dead leaf bases surrounding base of stem

The inner most (1.2) is the first pair of green leaves of this year in the axil of one of which the flower stalk appears

or oblique to other side?

Cauline pair of leaves

1 corresp. to lin right hand diagram

1.2 first pair of green leaves of the season in the axil of 1 the flower stalk;

3 & 4 second pair of leaves with axillary bud 5.6 small pair of leaves for next year, with fl. stalk

4005

Canon City,
Sept. 6th.

Dr. Geo. Engelmann,

Dear Sir, I have recvd. your letter from Empire

Trains run through from Denver to Canon in one day – There are only two hotels in Canon but they are both pretty good – An omnibus will be at the depot which is one mile from the town – I will try to see you as soon as you arrive in the town and if I should not the proprietors of either hotel can give information in regard to me

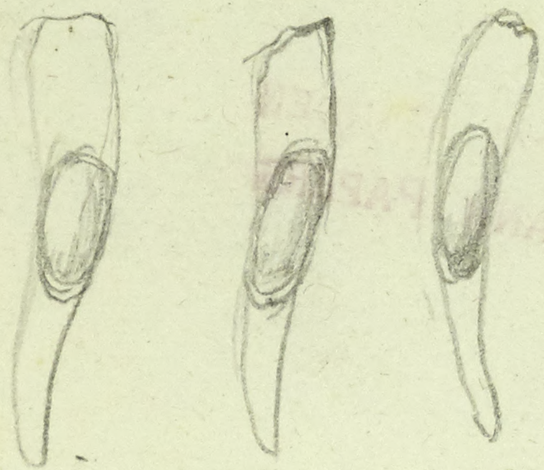
Yours truly
T. S. Brandegee

Gentiana ciliata

Sudetes

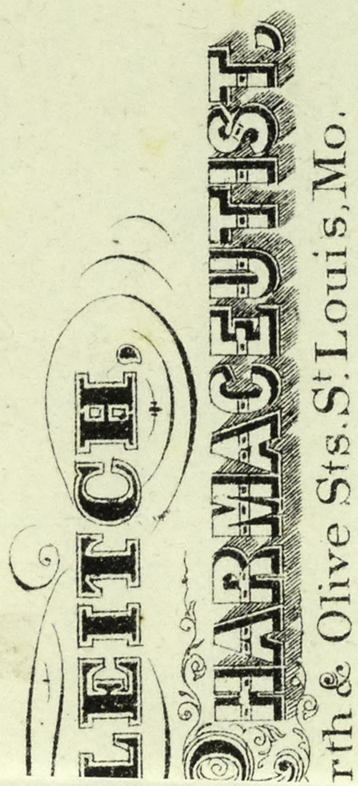
Sept 1862

×30



seed

4006



Gentiana ciliata

annua Koch Syn. 492
Doell R
perennis Gris. in DC Prod
9. 101

very specious indeed
a perennial plant
JE

Vitis

4007

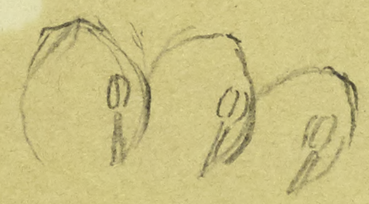
Gentiana crocea

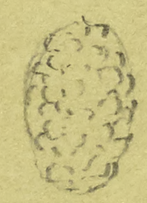
Calif.

Nov 6 1874

x4

fruit-ferous calyx laid open





seed x30

reticulate

scrobiculate

x30

anther introrse

not versatile

HENRY EHRHARDT,

PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No. *Date* 187

℞

Dr. GEORGE ENGLEMAN,

N. W. Corner of Garrison Avenue and Locust Street.

No. _____ Date _____

Jan 1875

Gentiana crocea (parvula annua) simplex seu
e basi ramosa
foliis

floribus 4-meris longe pedunculatis, calyce campanulato laxo
membranaceo 4 dentato, corolla ~~[illegible]~~ crocea campanulatae floribus late ovatis,
(obtusis s. retusis)
(extus) tubo brevior
filamentis fauci inserti limbo brevioribus; antheris extus
ovatis introrsis stylo tenui diuturno, stigmatibus
latis semiorbiculatis
capsula ovata
capsula senili, semibus ovato globosis; strioladis

Rx Tal. Digitalis purpurea Gr. & Bicolor Mendocino — May 1866
Green

Only 1 – 2 inches high. —

PRESCRIPTIONS

CAREFULLY COMPOUNDED

BY

COMPETENT PHARMACISTS

DAY AND NIGHT.

Stoddard Pharmacy,

N. W. Cor. Easton & Garrison Aves.,

POOLE & CO.

IMPORTED AND ARTIFICIAL

MINERAL WATERS,

NATIVE AND IMPORTED

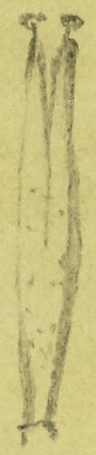
WINES AND LIQUORS,

FOR MEDICINAL PURPOSES.

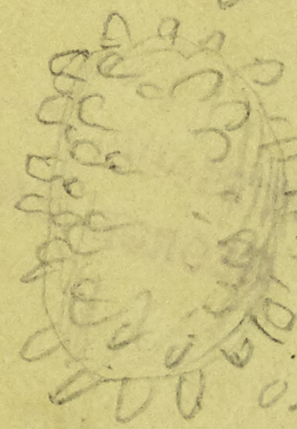
Gentian dentata Gray

Oct 10 1877

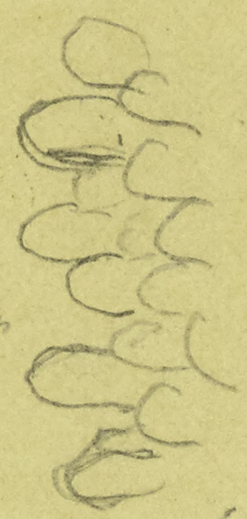
Tin marking Jn 1864



styles brevissimus
stigmata brevissimis

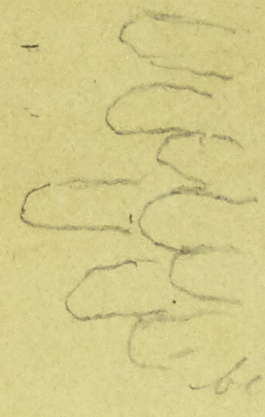


0.7 mm long



capsula linearis, basi attenuata
vix stipitata

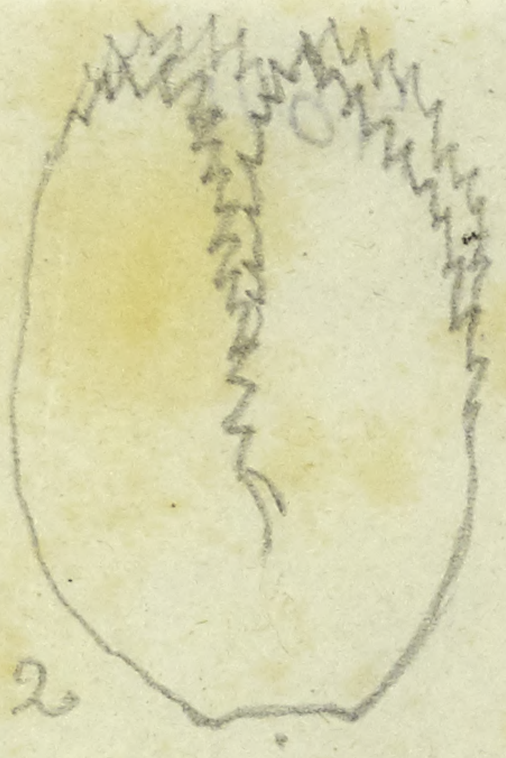
×60



vesiculae cylindr

better

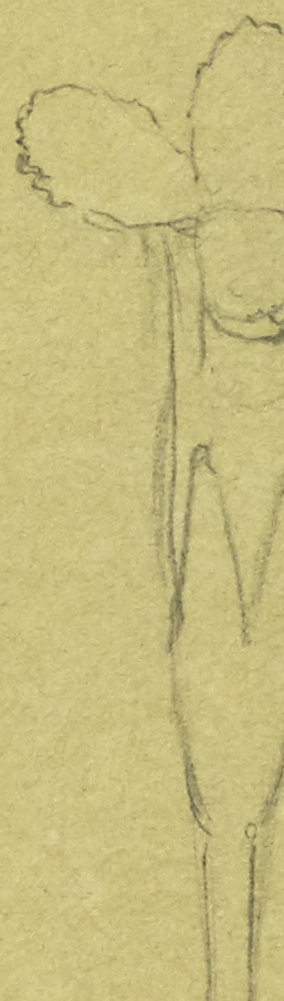
4010



2

3

Gentl. venerabilis Gris
Hook fil. Sort.
Nitid. [illegible] by
[illegible] author [illegible]



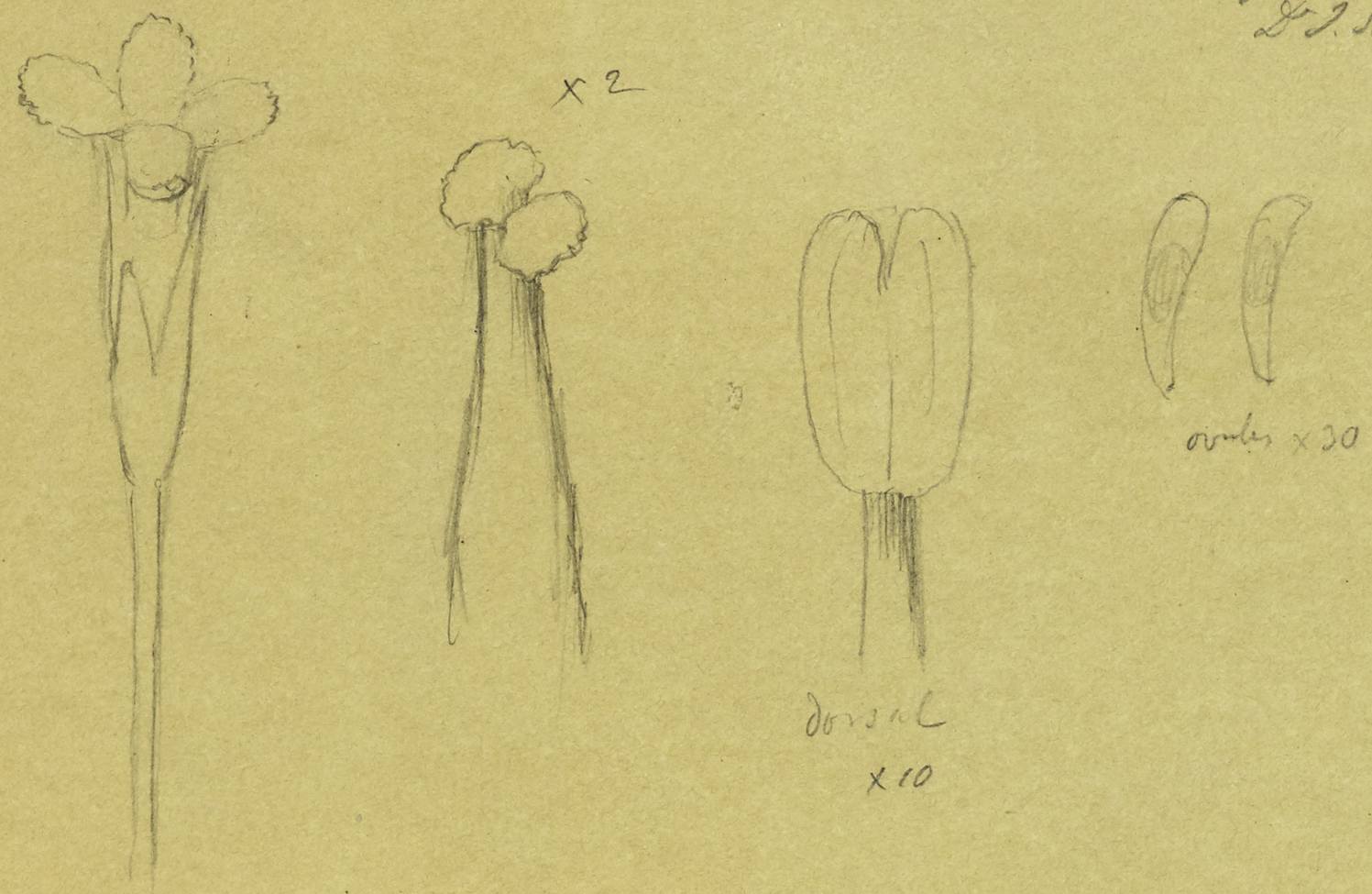
Hook fl Bor A.

Nov 17 1874

Gent simplex A Gray!

Upper Klamath Lake Aug 22

Dr J. S. Newberry



HENRY EHRHARDT,

PHARMACEUTICAL CHEMIST,

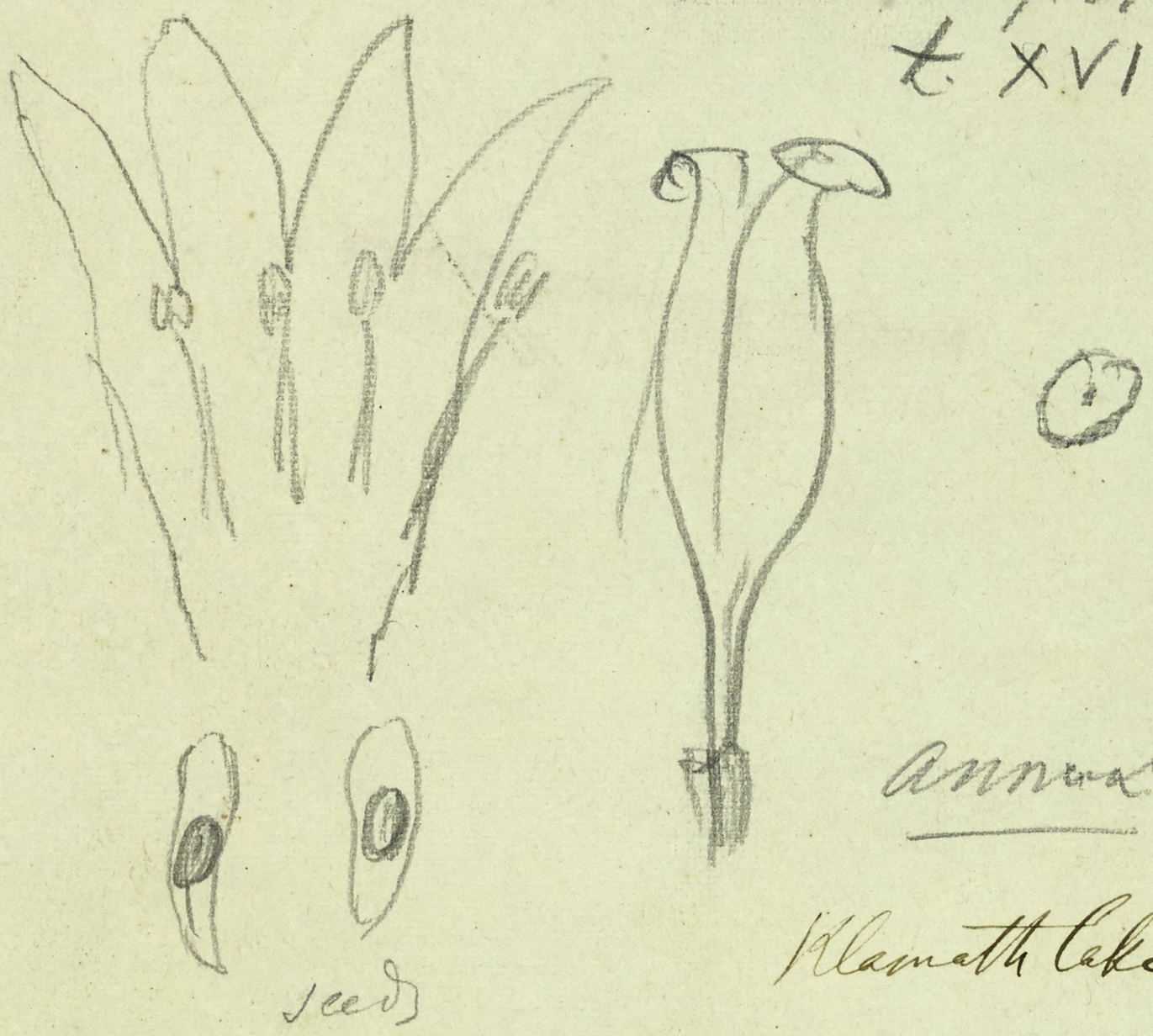
No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No. *Date* 187

℞

Gentiana simplex

P.A. VI. p. 87
t. XVI



annual

Klamath Lake

G. simplex is evidently a Crossopetalum, with the seeds of G. ciliata (not of the other Am. spec.) but annual and without cilia!

Dr. Th. Ulrichs

Apotheke & Office

No. 14

NORTH THIRD STREET

&

ST. LOUIS, MO.

Robyn, Lith. St. Louis Mo

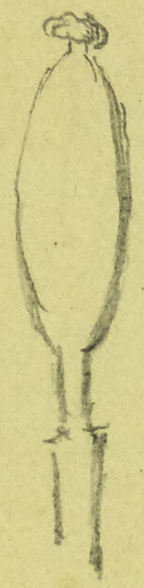
4013

Gentiana simplex Gray

fide Gray

Brewer 2153

Oct 10 1877



x30

0.8 mm long

Greene, Sierra

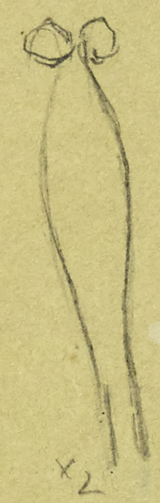
4014

385 Gentiana simplex fimbriata Nov 5 1874

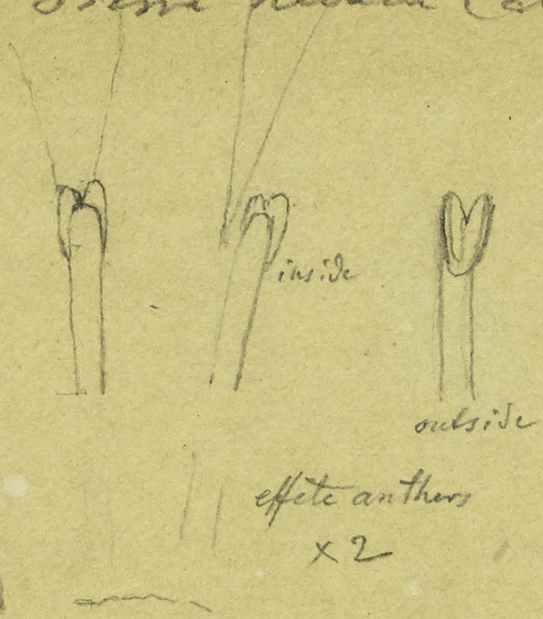
Summit Valley, Sierra Nevada Cal

E L Greene Oct 13 1874

front x 2



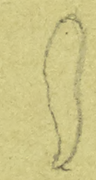
x2



base of flower x 2

Calyx about as long as tube
Tube a little shorter than lobes
filaments inserted ± middle of tube, smooth reaching to top of tube
Anthers reversed (effete)
Ovules on whole surface of ovary

immature seed x 30



ovule x 30

stamens reaching to the fauces, pistil of about same length
in Nelson stamens much shorter, but pistil as long as tube

HENRY EHRHARDT,

PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No. *Date* 187

℞

Geo. Andrews — [illegible]
Cobes reduced to single cloth —
small
New Haven — Columbus Ohio, Buffalo
Auburn N York — Sandwich West N.Y.

Geo. Sagamore with long pleasure as long
as Cobes, or shorter — seeds large
with broad.

Geo. Creamer = Prematurity, pleasure
shorter, very obliquely and almost
entire seeds much smaller narrow
but rolls if used as Sagamore, also like Prematurity

Geo. Prematurity has very small, narrow
big rolled seeds — very obliqu'd —
entire pleasure

G. Creamer Maine, N Hampshire Lake Superior
Glades of Maryland, New Orleans Ark.
Porters Mountain.

about a line above the base of the
vides into three, the lateral
~~forks forks~~ soon fork twice,
not send off decurrent rami=
s in the manner of P. Car=
i; the midnerve produces
te branches, and all give
lets which ~~are~~ not rarely
mose.

Junc. alba Mohl (flavida Gray ol.) Mts of Virg.
Illinois (Bebb, Geyer) Lake Superior.
Marsh on Otter Shoal
G. odontolepis Lancaster Pa Porter, Washington DC
S Carol., Bedford Co Va, Mobile, off foliis obtusis
inferiorum obtusis
Cambridge Oct 1876

4017

Parnassia palustris Linn., var. Californica. Sub-sesqui-pedalis; foliis radicalibus fere semper ovatis basi in petiolum angustatis, caulinis paucis vel nullis; petalis sub-orbiculatis, venis longiter ramosis; staminodiis latis tenuiter setosis 24-fidis. – Margin of streams on Red Mountain.